

62 24. (Thrice Amended) The liposomal formulation according to claim 23, which comprises a mixture of pre-defined populations of particles with mean diameters respectively bigger than 400nm and lower than 100nm.

25. (Amended) A process for the preparation of a final formulation composed of distinct populations with distinct mean diameters, containing a dinitroaniline pesticide, which comprises the steps:

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1. obtaining of the liposomal formulations containing vesicles of dinitroaniline pesticide by hydration, with a solution containing an antisolubilizing agent of a lipidic film containing the dinitroaniline pesticide;
  2. Obtaining different populations with well-defined diameters by a sizing step;
  3. mixing the distinct populations;
  4. lyophilization dehydration of the so obtained liposomal formulations; and
  5. rehydration of the dehydrated liposomal formulations.

27. (Amended) The process according to claim 25, which comprises performing the sizing step by extrusion of the vesicles under Pressure through porous membranes.

64 28. (Amended) The process according to claim 25, wherein the hydration is carried out by the addition of an aliquot portion of an aqueous solution, followed by the addition of the remaining volume of the aqueous solution, after a resting period.

29. (Amended) The process according to claim 28, which comprises using, in the hydration steps, a salt-free solution.

30. (Amended) The process according to claim 29, which comprises performing the rehydration steps with saccharose, trehalose, glucose or mixtures thereof.

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32. (Amended) The process according to claim 25, which comprises mixing particles after sizing to yield a population of particles with diameters of, respectively, bigger and lower than 100 nm.

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34. (Amended) The process according to claim 25, which comprises performing the hydration by addition of a small amount of aqueous solution, namely 20% of the final volume, followed by addition of the rest of the volume, namely 80% of the final volume, after a 30-minute rest period.

35. (Amended) The process according to claim 25, which comprises using in the hydration step a salt-free solution.

36. (Amended) The process according to claim 25, which comprises performing rehydration with a member selected from the group consisting of solutions of saccharose, trehalose, glucose and mixtures thereof.

37. (Amended) The process according to claim 25, which comprises using at least one of the lipids selected from the group consisting of distearoylphosphatidylcholine (DSPC), phosphatidylcholine (PC), cholesterol and cholesterol derivatives, sphingomyelin (SM), dioleoylphosphatidylcholine (DOPC), dioleoylphosphatidylglycerol (DOPG), phosphatidylglycerol (PG), dimiristoylphosphatidylcholine (DMPC), dipalmitoylphosphatidylcholine (DPPC), gangliosides, ceramides, phosphatidylinositol (PI), phosphatidic acid (PA), dicetylphosphate (DcP), dimiristoylphosphatidylglycerol (DMPG), stearylamine (SA), dipalmitoylphosphatidylglycerol (DPPG) and mixtures thereof.

38. (Amended) The process according to claim 25, wherein the dinitroaniline pesticide is trifluralin.

39. (Amended) A liposomal formulation containing a dinitroaniline pesticide when prepared by a process according to claim 25.

66 40. (Amended) A method of applying the liposomal formulation as defined according to claim 23 which comprises the treatment of disease in humans or animals, wherein administration of a therapeutic quantity of the liposomal formulation is applied to humans or animals.

41. (Amended) Method for the preparation of a pharmaceutical composition for the treatment of humans or animals, wherein a composition is provided containing a therapeutic quantity of the pharmaceutical composition containing the dinitroaniline liposomal formulation prepared according to the process of claim 25.

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Please add the following new claim 42:

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42. The process according to claim 25, which comprises performing the hydration in step 1 by addition of 5-30% of final volume of aqueous solution, followed by addition of the remainder 70-95% of final volume, after a 30-minute period of rest.

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